0590



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: $\frac{/0/08/,5556}{0/06}$ Source: 0/06/6Date Processed by STIC: 12/13/2002

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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- Hand Carry directly to:
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Revised 01/29/2002



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,555B

DATE: 12/13/2002

TIME: 14:59:34

Input Set : A:\Salk2270.app

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 5 <120> TITLE OF INVENTION: NOVEL STEROID-ACTIVATED NUCLEAR RECEPTORS AND USES THEREFOR
 7 <130> FILE REFERENCE: SALK2270-5
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 9 <140> CURRENT APPLICATION NUMBER: 10/081,555B
10 <141> CURRENT FILING DATE: 2002-02-20
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13 <151> PRIOR FILING DATE: 1999-12-09
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15 <150> PRIOR APPLICATION NUMBER: 09/227,718
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.26 <211> LENGTH: 2068
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                                                      Corrected Diskette Needed
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34 <220> FEATURE:
35 <221> NAME/KEY: modified_base
36 <222> LOCATION ( (1263))
37 <223> OTHER INFORMATION (a, c, t, or g
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42 cagactgatg aaatgcgctc agaattactt agacaaagcg gatatttgcc actctcttcc 120
44 ccttttcctg tgtttttgta gtgaagagac ctgaaagaaa aaagtaggga gaacataatg 180
46 agaacaaata cggtaatctc ttcatttgct agttcaagtg ctggacttgg gacttaggag 240
48 gggcaatgga gccgcttagt gcctacatct gacttggact gaaatatagg tgagagacaa 300
50 gattgtctca tatccgggga aatcataacc tatgactagg acgggaagag gaagcactgc 360
52 ctttacttca gtgggaatct cggcctcagc ctgcaagcca agtgttcaca gtgagaaaag 420
54 caagagaata agctaatact cctgtcctga acaaggcagc ggctccttgg taaagctact 480
56 ccttgatcga tcctttgcac cggattgttc aaagtggacc ccaggggaga agtcggagca 540
                                                                      594
58 aagaacttac caccaagcag tccaagaggc ccagaagcaa ac ctg gag gtg aga
59
                                                  Met Glu Val Arg
60
62 ccc aaa gaa agc tgg aac cat gct gac ttt gta cac tgt gag gac aca
                                                                      642
63 Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His Cys Glu Asp Thr
                                            15.
64
                        10
66 gag tot gtt cot gga aag coo agt gto aac goa gat gag gaa gto gga.
67 Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp Glu Glu Val Gly
                                        30 ·
68
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RAW SEQUENCE LISTING DATE: 12/13/2002 PATENT APPLICATION: US/10/081,555B TIME: 14:59:35

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	ggt Gly				-	_	-	_		-	-	-					738	
74 75	ttc Phe		Val	atg				Gly	tgc				Phe	agg			786	
79	atg Met	Lys					Leu					Arg					834	
.83	gag Glu																882 .	•
	aag Lys					ggc					atg					gag	930	
90	gcc Ala				agg					aag					gaa		978	
94	aca Thr			cag		_	Gly		cag		_			gag	_		1026	
98	atg Met		atc Ile				atg	gac					acc Thr				1074	•
10 10)2 acc)3 Thi)4 165	ttc Phe	tco				aat Asn					ggg Gly	gto				1122	
10)6 ggd)7 Gly	tgc				gag Glu	tct				cca Pro	tcg				gct Ala	1170	
11	.0 gcd				cag Gln	gtc				ctg Lev	, tgc				g gto s Val	tct	1218	_
11	.4 ctc	g cag i Gln	cto Lev 215	g cgg ı Arg	ggg	gag Glu	gat Asp	ggc Gly 220	agt / Ser	gto	tgg Trp	aac Asr	tac Tyr 225	aaa Lys	ccc	c Cca Pro	1266	
13	.8 gcc .9 Alá		agt Ser	ggc				ato	tto				g ccc ı Pro	cac			1314	
12 12	22 gad 23 Asp 24 245	c atg	tca				ttc Phe					ago Ser	ttt				1362	
12	26 ato 27 Ile	tcc				gac Asp	ttg				gac Asp	caç				ctg Leu	1410	
13	80 aag 81 Lys				ttc Phe	gag				ctg Leu	, aga				gto Val	ttc	1458	
	34 aac	gcg	gag			acc	tgg	gaç			cgg	cto	tcc			ttg	1506	

DATE: 12/13/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/081,555B TIME: 14:59:35

Input Set : A:\Salk2270.app

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139 Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu Glu Pro Met Leu
                            315
142 aaa ttc cac tac atg ctg aag aag ctg cag ctg cat gag gag gag tat
                                                                        1602
143 Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His Glu Glu Glu Tyr
                        330
                                             335
144 325
                                                                        1650
146 qtq ctq atq caq qcc atc tcc ctc ttc tcc cca gac cgc cca ggt gtg
147 Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val
                                         350
                    345
                                                                        1698
150 ctq caq cac cqc qtq qtq qac caq ctq caq qaq caa ttc gcc att act
151 Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr
                                     365
152
                360
                                                                        1746
154 ctg aag tcc tac att gaa tgc aat cgg ccc cag cct gct cat agg ttc
155 Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe
156
            375
                                 380
158 ttg ttc ctg aag atc atg gct atg ctc acc gag ctc cgc agc atc aat
                                                                        1794
159 Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn
                            395
                                                 400
162 gct cag cac acc cag cgg ctg ctg cgc atc cag gac ata cac ccc ttt
                                                                        1842
163 Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe
                                                                  420
164 405
                         410
                                                                        1887
166 gct acg ccc ctc atg cag gag ttg ttc ggt atc aca ggt agc tga
167 Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
                                         430
                    425
170 gtggctgtcc ttgggtgaca cctccgagag gtagttagac ccagagccct ctgagtcgcc 1947
172 acteccqqqc caaqacaqat qqacactqcc aaqaqccqac aatgccctqc tggcctgtct 2007
174 ccctagggaa ttcctgctat gacagctggc tagcattcct caggaaggac atggggtgcc 2067
                                     Pro is at location 227, and can o represent
176 c
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180 <211> LENGTH: 434
181 <212> TYPE: PRT
182 <213> ORGANISM: Homo sapiens
184 <220> FEATURE:
185 <221> NAME/KEY: MOD RES
186 <222> LOCATION: ((227))
187 <223> OTHER INFORMATION Threonine
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193 Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
196 Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
                                  40
199 Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
202 Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
                                                                  80
203 65
                         70
                                              75
                                               aniro ocid at location
227 can be either fro or 12/13/02
```

RAW SEQUENCE LISTING DATE: 12/13/2002 PATENT APPLICATION: US/10/081,555B TIME: 14:59:35

Input Set : A:\Salk2270.app

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205 Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
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208 Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile
                                   105
               100
211 Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys
                                120
214 Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr
       130
                            135
217 Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys
                        150
                                            155
218 145
220 Thr Phe Asp Thr Thr Phe Ser His Phe Lys Asn Phe Arg Leu Pro Gly
                   165
                                        170
223 Val Leu Ser Ser Gly Cys Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser
               180
                                   185
226 Arg Glu Glu Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser
           195
                                200
229 Leu Lys Val Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn
      210
                            215
                                                220
232 Tyr Lys Pro Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu
233 225
                      230
                                            235
235 Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser
                                        250
               ~ 245
238 Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln
                                    265
241 Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe
           275
                                280
244 Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu
                            295
                                                300
247 Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu
                                            315
248 305
                       310
250 Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His
                                        330
253 Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp
               340
                                    345
256 Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln
                                360
259 Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro
                            375
       370
262 Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu
                        390
265 Arg Ser Ile Asn Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp
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                                        410
268 Ile His Pro Phe Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr
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271 Gly Ser
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275 <211> LENGTH: 25
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING DATE: 12/13/2002 PATENT APPLICATION: US/10/081,555B TIME: 14:59:35

Input Set : A:\Salk2270.app

	<220> FEATURE:				
		MATION: Description of		Putative	SXR
281	<u>-</u>	ement from the steroid	hydoxylase,		
282	rCYP3A1				
284	<400> SEQUENCE: 3		•		
285	tagacagttc atgaag	ttca tctac	•	25	
288	<210> SEQ ID NO:	4	•		
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290	<212> TYPE: DNA				
291	<213> ORGANISM: A	rtificial Sequence ·			
293	<220> FEATURE:				
294	<223> OTHER INFOR	MATION: Description of	Artificial Sequence:	Putative	SXR
295	response el	ement from the steroid	hydoxylase,		
296	rCYP3A2				
298	<400> SEQUENCE: 4				
299	taagcagttc ataaag	ttca tctac		25	•
302	<210> SEQ ID NO:	5			
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304	<212> TYPE: DNA				
305	<213> ORGANISM: A	rtificial Sequence			
	<220> FEATURE:	- -			
		MATION: Description of	Artificial Sequence:	Putative	SXR
309		ement from the steroid			
310					
312	<400> SEQUENCE: 5	,			
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	<210> SEQ ID NO:		•		
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		rtificial Sequence	• .		
	<220> FEATURE:	•			
322	<223> OTHER INFOR	MATION: Description of	Artificial Sequence:	Putative	SXR
		ement from the steroid			
324		,		·	
	<400> SEQUENCE: 6				
	caatcagttc aacagg			26	
	<210> SEQ ID NO:		·		
	<211> LENGTH: 33				
	<212> TYPE: DNA				
		rtificial Sequence			
	<220> FEATURE:	•	•		
		MATION: Description of	Artificial Sequence:	Putative	SXR
337		ement from the steroid			
338	-				
	<400> SEQUENCE: 7	·			
		ccag cagcaggtcg aaa		33	
			•	•	
344	<210> SEQ ID NO:		•	,	
344 345			·		

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/081,555B

DATE: 12/13/2002 TIME: 14:59:36

Input Set : A:\Salk2270.app

Output Set: N:\CRF4\12132002\J081555B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; N Pos. 7,8,9,10,11 Seq#:23; N Pos. 7,8,9,10,11,12 Seq#:44; N Pos. 7,8,9 Seq#:45; N Pos. 7,8,9,10 Seq#:46; N Pos. 7,8,9,10,11 Seq#:47; N Pos. 7,8,9 Seq#:48; N Pos. 7,8,9,10

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/081,555B

DATE: 12/13/2002 TIME: 14:59:36

Input Set : A:\Salk2270.app
Output Set: N:\CRF4\12132002\J081555B.raw

L:548	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:22	after	pos.:0
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L:840	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:44	after	pos.:0
L:858	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:45	after	pos.:0
L:876	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:46	after	pos.:0
L:894	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:47	after	pos.:0
L:912	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:48	after	pos.:0